

Trade and Industrial Education**Course: Leisure Craft: Systems****Course Code # 5705****School Year** _____**Term:** ____ **Fall** ____ **Spring** ____

1 to 2 Credits, Note: Standards 1 through 7 apply for 1 credit. Standards 8 through 9 apply for an additional 1 credit. Standards 8 through 9 apply to outboard engine service technology.

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|--|---------|
| Student: | Grade: |
| Teacher: | School: |
| Number of Competencies in Course: 28 for 1 credit, 45 for 2 credits | |
| Number of Competencies Mastered: | |
| Percent of Competencies Mastered: | |

STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|---|---|---------|-------------|
| 1.1 | Develops a plan for self-improvement. | | | |
| 1.2 | Participate in SkillsUSA-VICA as an integral part of classroom instruction. | | | |
| 1.3 | Comprehend client expectations. | | | |
| 1.4 | Develop a working relationship with a mentor. | | | |

STANDARD 2.0: Students will demonstrate safety practices pertinent to leisure craft, including Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|---|---|---------|-------------|
| 2.1 | Implement safety procedures established by the Occupational Safety & Health Administration (OSHA) and Environmental Protection Agency (EPA). | | | |
| 2.2 | Analyze and categorize safety and health hazards and their prevention in the leisure CRAFT industry. | | | |
| 2.3 | Exhibit acceptable dress and personal grooming identified by the leisure CRAFT industry. | | | |
| 2.4 | Demonstrate first aid practices. | | | |
| 2.5 | Pass with 100 % accuracy a written examination relating to safety issues. | | | |
| 2.6 | Pass with 100% accuracy a performance examination relating to safety. | | | |
| 2.7 | Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor. | | | |

STANDARD 3.0: Students will apply communication, mathematics, and science knowledge and skills to leisure craft.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|--|---|---------|-------------|
| 3.1 | Examine how physics concepts apply to leisure craft. | | | |
| 3.2 | Explore the application of fundamental laws of hydraulics. | | | |
| 3.3 | Analyze the characteristics and properties of liquids as applied to leisure craft. | | | |
| 3.4 | Perform mathematical calculations and measurements commonly used in leisure craft. | | | |
| 3.5 | Communicate findings as related to mathematics and science knowledge and skills related to diagnosis of problems in leisure craft. | | | |

STANDARD 4.0: Students will evaluate strategic diagnostic procedures for leisure craft.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|--|---|---------|-------------|
| 4.1 | Implement strategic diagnostic procedures. | | | |
| 4.2 | Conduct preventative maintenance on leisure craft service. | | | |

STANDARD 5.0: Students will properly test, diagnose, service, and repair brake systems connected with leisure craft.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|----------------------------------|---|---------|-------------|
| 5.1 | Analyze hydraulic brake systems. | | | |
| 5.2 | Analyze drum brake systems. | | | |
| 5.3 | Analyze disc brake systems. | | | |
| 5.4 | Analyze antilock brake systems. | | | |

STANDARD 6.0: Students will properly test, diagnose, service, and repair suspension systems connected with leisure craft.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|---|---|---------|-------------|
| 6.1 | Perform diagnostic procedures on steering systems on leisure craft. | | | |
| 6.2 | Test, diagnose, service, and repair front and rear suspension systems on leisure craft. | | | |
| 6.3 | Set front and rear wheel alignment angles. | | | |

STANDARD 7.0: Students will properly test, diagnose, service, and repair transmissions connected with leisure craft.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|---|---|---------|-------------|
| 7.1 | Perform diagnostic procedures on transmissions in leisure craft vehicles. | | | |
| 7.2 | Make adjustments to components of the transmission system. | | | |
| 7.3 | Comprehend the principles of operation of mechanical-shifting power-output systems. | | | |

STANDARD 8.0: Students will properly test, diagnose, service, and repair steering systems used in leisure craft.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|---|---|---------|-------------|
| 8.1 | Perform diagnostic procedures on steering system components used with watercraft specific to outboard engines. | | | |
| 8.2 | Perform diagnostic procedures on mounted cable steering systems used with watercraft specific to outboard engines. | | | |
| 8.3 | Test, diagnose, service, and repair cable over pulley steering systems used with watercraft specific to outboard engines. | | | |
| 8.4 | Test, diagnose, service, and repair rotary steering systems used with watercraft specific to outboard engines. | | | |
| 8.5 | Test, diagnose, service, and repair rack and pinion systems used with watercraft specific to outboard engines. | | | |

STANDARD 9.0: Students will analyze system interrelationships within operation and service of power-output systems.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|--|---|---------|-------------|
| 9.1 | Analyze the transference of mechanical output of the engine in relations to the watercraft moving through the water. | | | |
| 9.2 | Comprehend the functions of mid section and lower unit of the outboard engine. | | | |
| 9.3 | Analyze major components of propeller assemblies relating to various types of watercraft. | | | |
| 9.4 | Service and repair power-output systems. | | | |

STANDARD 10.0: Students will demonstrate communication skills required in the leisure craft service industry.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|--|---|---------|-------------|
| 10.1 | Communicate and comprehend oral and written information typically occurring in leisure craft service facility. | | | |
| 10.2 | Solve leisure craft problems and make decisions using a logical process. | | | |
| 10.3 | Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups. | | | |

STANDARD 11.0: Students will demonstrate interpersonal and employability skills required in the leisure craft service industry.

| Learning Expectations | | Check the appropriate Mastery or Non-Mastery column | Mastery | Non-Mastery |
|-----------------------|--|---|---------|-------------|
| 11.1 | Infer relationships between work ethics and organizational and personal job success for leisure craft systems service. | | | |
| 11.2 | Develop customer service skills. | | | |
| 11.3 | Maintain a neat and orderly leisure craft systems service work area. | | | |
| 11.4 | Assess implications of diversity for communities and workplaces. | | | |
| 11.5 | Explore supervisory and management roles in leisure craft dealerships or independent shops. | | | |

Additional Comments _____